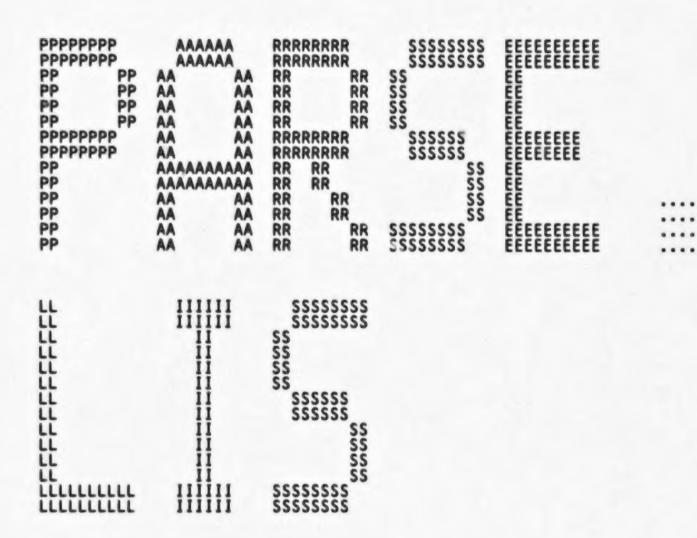
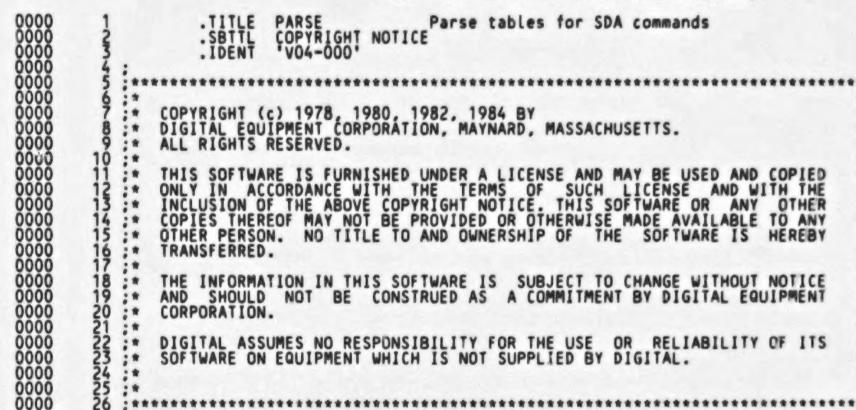
\$	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	AAAAAAA AAAAAAA AAAAAAA
\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	DDD DDD DDD DDD DDD DDD DDD	AAA AAA AAA AAA AAA AAA
\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$	DDD DDD DDD DDD DDD DDD DDD DDD DDD DDD	AAA AAA AAA AAA AAA AAA
\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	DDD	AAAAAAAAAAAAA AAA AAA AAA AAA AAA AAA
\$	DDDDDDDDDDDDDDDD	AAA AAA

STOTE CONTROL OF CONTR



PARSE Table of contents	Parse tables for SDA commands	16-SEP-1984 01:36:01	VAX/VMS Macro V04-00
(1) 29 (2) 107 (3) 118 (4) 134 (5) 991 (6) 1094 (6) 1114 (7) 1137 (8) 1172 (9) 1194 (10) 1214	COPYRIGHT NOTICE PROGRAM DESCRIPTION DECLARATIONS DATA STORAGE PARSER STATE TABLE EXPRESSION ANALYSIS ACTION ROUTINES STORE RELOCATION, STORE READ/RELOCATE VALUE STORE PROC INDEX, STORE PROCESS INDEX LOW BITS SAVE COMMAND, SAVE THE CURRENT COMMAND REPEAT COMMAND, REPEAT THE PREVIOUS COMMAND DEFINE KEY - DEFINE KEY Action Routines for SET:SHOW RMS/DISPLAY=optionsp	ec	

Page 0



B 16

C 16

```
0000
0000
0000
                        .SBTTL PROGRAM DESCRIPTION
          2555555555555554444
                  FACILITY
                        SYSTEM DUMP ANALYZER
                   ABSTRACT
                        This module contains the parse tables which
                        are used to parse SDA commands.
                   ENVIRONMENT
                        NATIVE MODE, USER MODE
          AUTHOR
                        TIM HALVORSEN, JULY 1978
0000
                   MODIFIED BY
0000
                                  EMB0109 Ellen M. Batbouta 24-Jul-1984 Fix SHOW DEVICE/ADDRESS so that it will be consistent with other sda commands with the qualifier /address such as SHOW PORTS/ADDRESS.
0000
                        V03-015 EMB0109
0000
ŎŎŎŎ
0000
ŎŎŎŎ
                                  EMB0102 Ellen M. Batbouta 30-May-1984 Add support for SHOW CLUSTER, SHOW CONNECTIONS, SHOW RSPID, and SHOW PORTS.
0000
                        V03-014 EMB0102
0000
ÖÖÖÖ
ŎŎŎŎ
0000
                        V03-013 PRB0302
                                  PRB0302 Paul Beck 28-1
Add support for EXAMINE/INST/NOSKIP
                                                                           28-Dec-1983 17:50
0000
0000
                                  ROW0260 Ralph O. Weber 21-NOV-1983 Changes parse tables to allow SHOW RESOURCES, SHOW LOCKS, and SHOW PROCESS /LOCKS.
0000
                        V03-012 ROW0260
0000
0000
0000
0000
                        V03-011 R0W0237
                                                                                      10-NOV-1983
                                                       Ralph O. Weber
                                  Add TPARSE table entries to support the SHOW DEVICE/ADDR
                                  command.
                        V03-010 WMC0002
                                                       Wayne Cardoza
                                                                                      30-Sep-1983
                                  Bad transition after page table range
                        V03-009 BLS0230
                                                       Benn Schreiber
                                                                                      24-Jul-1983
                                  Correct end of line / comment handling
                        V03-008 WMC0001
                                                                                      11-Jul-1983
                                                       Wayne cardoza
                                  Support for separate display of PO and P1 process page tables.
                        V03-007 JLV0259
                                                                                      23-MAY-1983
                                                       Jake VanNoy
                                  ADD DEFINE/KEY.
                        V03-006 TMK0001
                                                                                      21-Mar-1983
                                                       Todd M. Katz
                                  ADD SET LOG and SET NOLOG syntax.
                        V03-005 CWH1002
                                                       CW Hobbs
                                                                                       2-Mar-1983
```

PARSE V04-000	Parse tables for S PROGRAM DESCRIPTION	DA commands	D 16 16-SEP-1984 01:36:01 VAX/VMS Macro V04-00 Page 5-SEP-1984 03:33:21 [SDA.SRC]PARSE.MAR;1	3 (1)
	0000 86 : 0000 87 : 0000 88 : 0000 89 : 0000 90 : 0000 91 :		Store only the low bits of proc index (as determined by the global PIX_WIDTH so that we can interchange internal and extended pids. Change syntax of SHOW SUMMARY to add SHOW SUMMARY /IMAGE.	
	0000 92 :	v03-004	RAS0123 Ron Schaefer 8-Feb-1983 Add SHOW PROC/RMS=RJB syntax.	
	0000 93 : 0000 94 : 0000 95 : 0000 96 : 0000 97 :	v03-003	JLV0224 Jake VanNoy 21-JAN-1983 Add Examine/PSL Examine/CONDITION_VLAUE and Examine/TIME parsing. Add VALIDATE QUEUE syntax.	
	0000 98 0000 99 0000 100 0000 101	v03-002	LMP0031 L. Mark Pilant, 17-Jun-1982 13:15 Add support for SHOW PROCESS/CHANNELS. Also, change the parsing to allow a process name along with qualifiers.	
	0000 101 0000 103 0000 104 0000 105	v03-001	MSH0001 Maryann Hinden 10-Jun-1982 Add SHOW LOCK, SHOW RES, SHOW PROC/LOCK commands.	

PARSE V04-000	Parse tables for SDA c DECLARATIONS	commands E 16	-SEP-1984 01:36:01 VAX/VMS Macro V04-00 -SEP-1984 03:33:21 [SDA.SRC]PARSE.MAR;1	Page 4
	0000 107 0000 108 : 0000 109 : 0000 110 : 0000 111 0000 112 0000 113 0000 114 0000003B 0000 115 SEMI 0000003A 0000 116 COLON	SBTTL DECLARATION SYMBOL DEFINITIONS STPADEF SOPTDEF SSMGDEF = ^A':' = ^A':'	: TPARSE DEFINITIONS : DEFINE BITS IN OPTIONS WORD : SCREEN INPUT DEFINITIONS	

Parse tables DATA STORAGE	for S	SDA commands	F 16 16-SEP-1984 01:36:01 VAX/VMS Macro V04-00 Page 5-SEP-1984 03:33:21 [SDA.SRC]PARSE.MAR;1
0000 1	18	.SBTTL	DATA STORAGE
0000 1 0000 1	20	STORAGE	DEFINITIONS
00000000 1	23	.PSECT	SDADATA, WRT, NOEXE
00000050 0000 1	26	REV_BUFFER: .BLKB REV_COMMAND:	80 ; HOLDS PREVIOUS COMMAND
00000000 0050 1	28	LONG ADDRESS	S PREV_BUFFER
00000002 0058 1	31 KE	Y_ATTR:	SMG\$M_KEY_TERMINATE ; KEYPAD ATTRIBUTE FOR "REPEAT KEY"

PARSE VO4-000

```
.SBTTL PARSER STATE TABLE
1133344444444444555555555567890123456789012345678901234567890123456789012345678901234567890
                     STATE TABLE FOR DUMP ANALYZER COMMANDS
                     $INIT_STATE SDA_STATE, SDA_KEY
                                   START
'READ', READ_CMD
'REPEAT', START, REPEAT_COMMAND
TPA$_LAMBDA,, SAVE_COMMAND
                     STRAN
                     STRAN
                     STRAN
                     SSTATE
                                  'a', INDIRECT_CMD
'COPY', COPY CMD
'DEFINE', DEFINE
'EXAMINE', EXAMINE
'FORMAT', FORMAT_CMD
'HELP', HELP_CMD
'SET', SET
'SEARCH', SEARCH
'SHOW', SHOW
'EVALUATE', EVALUATE
'EXIT', EXIT_CMD
'VALIDATE', VALIDATE
TPA$_LAMBDA, CK_EOS
                     STRAN
                                   CK_EOS
!! TPAS_EXIT
TPAS_EOS, TPAS_EXIT
                     STATE
STRAN
                     STRAN
                     SEARCH start:end = object
                                  start; length = object
                                   SEARCH
!EXPRESSION
                     SSTATE
                     STRAN
                     SSTATE
                                   SEMI...OPTSM_LENGTH.OPTIONS
COLON...OPTSM_RANGE.OPTIONS
                     STRAN
                     STRAN
                     SSTATE
                     STRAN
                                   !EXPRESSION
                     SSTATE
                     STRAN
                     STRAN
                                   TPAS_LAMBDA
                     SSTATE
                     STRAN
                                   !EXPRESSION
                     SSTATE
                     STRAN
                                   TPA$_LAMBDA, TPA$_EXIT, SEARCH_MEMORY
                     afilespec
                                   INDIRECT_CMD !COLLECT,TPAS_EXIT,INDIRECT_COMMAND,,FILE_DESC
```

```
SHOW PROCESS name /options
SHOW SUMMARY
SHOW PAGE TABLE
SHOW PFN DATA
SHOW POOC /IRP /NONPAGED /ALL
SHOW CRASH
SHOW STACK /mode (default is current stack)
SHOW SYMBOL name /ALL
SHOW DEVICE device /ALL
                                SHOW RMS
                                SHOW LOCKS
SHOW RESOURCES
SHOW CLUSTER /CSID=n /SCS
SHOW CONNECTIONS /ADDRESS=n
SHOW PORTS /ADDRESS=n
SHOW RSPID /CONNECTION=n
                                                    SHOW
'CRASH', TPAS_EXIT,DISPLAY_CRASH
'DEVICE',DEVICE
'HEADER',TPAS_EXIT,PRINT_HEADER
'LOCKS',LOCK
'PAGE_TABLE',PAGE_TABLE
'PFN_DATA',PFN_DATA
'POOL',POOL
'PROCESS',PROCESS
'RESOURCES',RES
'RMS',SHOW_RMS
'STACKS',STACK
'SUMMARY',SHOW_SUMMARY
'SYMBOLS',SYMBOL
'CLUSTER',VAXCLUSTER
'CONNECTIONS',SCS_CONNECT
'RSPID',SCS_RDT
'PORTS',SCS_PORTS
                                STATE
STRAN
                                 STRAN
                                STRAN
                                 STRAN
                                 STRAN
                                 STRAN
                                STRAN
                                SHOW LOCK Lockid
                                                     LOCK OPTS, TPAS EXIT TPAS REX.,,LOCKID
                                STATE
STRAN
                                 STRAN
                                SSTATE
STRAN
                                                      !CK_EOS, TPAS_EXIT, SHOW_ONE_LOCK
                                                     LOCK_OPTS | CK_EOS, TPAS_EXIT, SHOW_ALL_LOCKS
                                STRAN
STRAN
                                STATE
STRAN
                                                      'ALL'
                                SSTATE
```

```
STRAN
                          !CK_EOS,TPA$_EXIT,SHOW_ALL_LOCKS
SHOW RES [/ALL] /LOCKID = xxxx
               SSTATE
STRAN
STRAN
                          RES
!CK_EOS,TPAS_EXIT,SHOW_ALL_RES
               SSTATE
STRAN
STRAN
                          'ALL', TPA$_EXIT, SHOW_ALL_RES'LOCKID'
               SSTATE
STRAN
STRAN
               STRAN
                          TPAS_HEX...LOCKID
               SSTATE
STRAN
                         !CK_EOS, TPA$_EXIT, SHOW_ONE_RES
                SHOW RMS
               STATE SHOW_RMS
STRAN !CK_EOS,TPAS_EXIT,SHOW_RMS_OPT
                SHOW CLUSTER /CSID=n /SCS
               SSTATE
STRAN
STRAN
                          VAXCLUSTER !CK_EOS, TPAS_EXIT, SHOW_CLUSTER
               SSTATE
STRAN
STRAN
                          'CSID'
'SCS', TPA$_EXIT, SHOW_SCS
               SSTATE
STRAN
                          TPAS_HEX....CSID
               STRAN
                          !CK_EOS, TPA$_EXIT, SHOW_CLUSTER
                SHOW CONNECTIONS /ADDR=n
                         SCS_CONNECT !CK_EOS, TPA$_EXIT, SHOW_CONNECTIONS
```

```
1/1
STRAN
STATE
STRAN
            'ADDRESS'
STATE
STRAN
STATE
STRAN
           !EXPRESSION, TPA$_EXIT, CDT_BYADDR
SHOW PORTS /ADDR=n
SSTATE
STRAN
STRAN
           SCS_PORTS
!CK_EOS,TPA$_EXIT,SHOW_PORTS
STATE
STRAN
           'ADDRESS'
STATE
STRAN
STATE
STRAN
           !EXPRESSION, TPA$_EXIT, PDT_BYADDR
SHOW RSPID /CONNECTION=n
SSTATE
STRAN
STRAN
           SCS_RDT
!CK_EOS,TPAS_EXIT,SHOW_RSPID
STATE
STRAN
            'CONNECTION'
STATE
STRAN
SSTATE
STRAN
            !EXPRESSION,,,1,CDT_SPCFY
           TPAS_LAMBDA, TPAS_EXIT, SHOW_RSPID
SET LOG filespec
SET NOLOG
SET OUTPUT filespec
SET PROCESS name /INDEX=n
SET RMS/DISPLAY=(opt1,opt2,...,optn)
           SET LOG', SET_LOG
```

J 16

NXT OPT !DIS_OPT

<' '> NXT OPT

SSTATE STRAN STRAN 10 (4)

Page

```
STATE
STRAN
SSTATE
                                                                                                                                                      DIS_OPT
TPAS_LAMBDA,,SETUP_DIS_OPT
                                                                                                              STRAN
STRAN
                                                                                                                                                        ATM_OPT,DIS_OPT_EXIT
                                                                                                          STATE
                                                                                                          SSTATE
                                                                                                                                                     !ATM_OPT, .OPT$M_NO, RMS_DIS_TMP1
DIS_OPT_EXIT
TPAS_LAMBDA, TPAS_EXIT, STORE_TMP1_OPT
                                                                                                               STRAN
                                                                                                          SSTATE
                                                                                                               STRAN
                                                                                                                                                  TPAS_LAMBDA, TPAS_EXIT, STORE_TMP1_OPT

ATM_OPT

'ALC'.IFI, OPTSM_RMSALL, RMS_DIS_TMP1
'ASB'.TPAS_EXIT, OPTSM_ASB, RMS_DIS_TMP1
'BDB'.TPAS_EXIT, OPTSM_BDB, RMS_DIS_TMP1
'BDBSUM', TPAS_EXIT, OPTSM_BDB, RMS_DIS_TMP1
'BLB'.TPAS_EXIT, OPTSM_BLB, RMS_DIS_TMP1
'BLB'.TPAS_EXIT, OPTSM_BLB, RMS_DIS_TMP1
'CCB'.TPAS_EXIT, OPTSM_CCB, RMS_DIS_TMP1
'FAB'.TPAS_EXIT, OPTSM_FAB, RMS_DIS_TMP1
'FCB'.TPAS_EXIT, OPTSM_FCB, RMS_DIS_TMP1
'FUA'.TPAS_EXIT, OPTSM_FGBD, RMS_DIS_TMP1
'GBD'.TPAS_EXIT, OPTSM_GBD, RMS_DIS_TMP1
'GBDSUM', TPAS_EXIT, OPTSM_GBD, RMS_DIS_TMP1
'GBD, TPAS_EXIT, OPTSM_GBD, RMS_DIS_TMP1
'GBD, TPAS_EXIT, OPTSM_GBD, RMS_DIS_TMP1
'IRAB_IFI.OPTSM_IFB, RMS_DIS_TMP1
'IRAB_IFI.OPTSM_IFB, RMS_DIS_TMP1
'IRAB_TPAS_EXIT, OPTSM_TRB, RMS_DIS_TMP1
'IRAB_TPAS_EXIT, OPTSM_TRB, RMS_DIS_TMP1
'RAB_TPAS_EXIT, OPTSM_RAB, RMS_DIS_TMP1
'TRC', TPAS_EXIT, OPTSM_RAB, RMS_DIS_TMP1
'XAB_TPAS_EXIT, OPTSM_XAB, RMS_DIS_TMP1
'*, TPAS_EXIT, OPTSM_XAB, RMS_DIS_TMP1
'*, T
                                                                                                          STATE
STRAN
                                                                                                               STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                               STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                               STRAN
                                                                                                                STRAN
                                                                                                                STRAN
                                                                                                               STRAN
                                                                                                               STRAN
                                                                                                        STATE
STRAN
STRAN
                                                                                                                STRAN
                                                                                                                                                       TPAS_LAMBDA, TPAS_EXIT
                                                                                                                                                     IFIZ

ALL', TPAS EXIT, CLR IFI TMP
!EXPRESSION, TPAS EXIT, STORE IFI TMP
                                                                                                          SSTATE
                                                                                                               STRAN
STRAN
                                                                                                          EVALUATE expression
                                                                                                          SSTATE
STRAN
                                                                                                                                                     EVALUATE
                                                                                                            STRAN
                                                                                                                                                       TPAS_LAMBDA, EVAL_EXP
                                                                                                            SSTATE
```

Parse tables for SDA PARSER STATE TABLE	commands	M 16 16-SEP-1984 01:36:01 VAX/VMS Macro V04-00 Page 12 5-SEP-1984 03:33:21 ESDA.SRCJPARSE.MAR;1 (4)
005C 476 005C 477 005C 478	STRAN SSTATE STRAN	'CONDITION_VALUE',,,OPT\$M_COND,OPTIONS EVAL_EXP !EXPRESSION
005C 476 005C 477 005C 478 005C 479 005C 480 005C 481 005C 482 005C 483	STATE STRAN STRAN SSTATE STRAN	'/' EVAL QUAL TPA\$ L MBDA, TPA\$ EXIT, SHOU FYPR EVAL QUAL 'CONDITION_VALUE',,,OPT\$M_COND,OPTIONS
005C 485	STATE STRAN	TPAS_LANGDA, TPAS_EXIT, SHOW_EXPR
005C 487 005C 488 005C 489 005C 490	EXAMINE	start:end /PO /P1 /SYSTEM /ALL /INSTRUCTION /PSL /TIME /CONDITION start; length
005C 494 005C 495 005C 496 005C 498 005C 499 005C 500 005C 501 005C 503 005C 503 005C 504 005C 505 005C 506 005C 507 005C 508 005C 509 005C 510 005C 510	SSTATE STRAN	EXAMINE TPAS_LAMBDA, EXAMINE_EXPRESSION 'PO', EXAM_OK, OPTSM_PO, OPTIONS 'P1', EXAM_OK, OPTSM_P1, OPTIONS 'SYSTEM', EXAM_OK, OPTSM_SYSTEM, OPTIONS 'ALL', EXAM_OK, OPTSM_ALC, OPTSM_INST, OPTIONS 'INSTRUCTION', EXAM_INS, OPTSM_INST, OPTIONS 'PSL', OPTSM_PSL, OPTSM_INST, OPTIONS 'TIME', OPTSM_TIME, OPTIONS 'CONDITION_VALUE', OPTSM_COND, OPTIONS EXAMINE_EXPRESSION 'CK_EOS_EXAM_OK 'EXPRESSION CK_EOS, EXAM_OK 'TEXAM_QUALS SEMI, OPTSM_LENGTH, OPTIONS COLON,, OPTSM_RANGE, OPTIONS !EXPRESSION '', EXAM_QUALS TPAS_LAMBDA, EXAM_OK EXAM_QUAL_LOOP
005C 512 005C 513 005C 514 005C 515 005C 517 005C 519 005C 521 005C 523 005C 523 005C 523 005C 523 005C 525 005C 527 005C 528 005C 528 005C 528 005C 528	STDAN	CK_EOS,EXAM_OK EXAM QUALS INSTRUCTION', EXAM_QUAL_LOOP, OPTSM_INST, OPTIONS 'NOSKIP', EXAM_QUAL_LOOP, OPTSM_NOSKIP, OPTIONS 'PSL', EXAM_QUAL_LOOP, OPTSM_PSC, OPTIONS 'TIME', EXAM_QUAL_LOOP, OPTSM_TIME, OPTIONS 'CONDITION_VALUE', EXAM_QUAL_LOOP, OPTSM_COND, OPTIONS EXAM_OK TPAS_LAMBDA, TPAS_EXIT, EXAM_MEMORY EXAM_INS TPAS_LAMBDA, EXAMINE_EXPRESSION

PARSE VO4-000

```
STRAN
                                            'NOSKIP', EXAM_INS,, OPT$M_NOSKIP, OPTIONS
           VALIDATE QUEUE expression
                                           VALIDATE VAL QUEUE
                               SSTATE
                              STRAN
                                           VAL_QUEUE
!CK_EOS, VALIDATE_Q_OK
!VAL_QUEUE_OPTS, TPAS_EXIT
                              SSTATE
                              STRAN
                              STRAN
                                           YAL_QUEUE OPTS
'/'.VAL_QUE_QUAL
!EXPRESSION,VAL_QUEUE
                              STRAN
                              STRAN
                              SSTATE
STRAN
                                           VAL QUE QUAL
'SECF RELATIVE', VAL QUEUE, OPTSM_SELF, OPTIONS
'MAXIMUM_LINKS'
                              STRAN
                              SSTATE
                              STRAN
                              STRAN
                              SSTATE
                              STRAN
                                            !DECIMAL, VAL_QUEUE, VAL_SET_MAX
                              SSTATE
                                           VALIDATE_Q_OK
                              STRAN
                                           TPAS_LAMBDX, TPAS_EXIT, VALIDATE_QUEUE
                              EXPRESSION ANALYSIS FOR EXAMINE ARGUMENTS
005C
005C
005C
                              THIS REDUCTION TABLE USES A SEPARATE STACK FOR PARSING TOKENS AS THEY ENCOUNTERED. THE RESULT OF THE LAST OPERATION IS ALWAYS PLACED IN TPA$L_NUMBER TO RETURN TO THE CALLING TRANSITION ROUTINE.
           564
565
566
567
568
005C
005C
005C
005C
005C
005C
005C
005C
005C
                              SSTATE
                                           EXPRESSION
                                           !TERM
                              STRAN
                                          EXPOP

+ ADDITION

- SUBTRACTION

TPAS LAMBDA, TPAS EXIT

ADDITION
                              SSTATE
                              STRAN
                              STRAN
                              STRAN
                              SSTATE
                                           !EXPRESSION, TPAS EXIT, ADD2
SUBTRACTION
                              STRAN
                              SSTATE
005C
005C
005C
005C
005C
           578
579
                                           TERM, EXPOP, SUB2
EXPRESSION, TPAS_EXIT, SUB2
                              STRAN
                              STRAN
                              SSTATE
                                           !FACTOR
                              STRAN
                              SSTATE
                                           'a', ARITH SHIFT
'*', MULTIPLICATION
!DIVISION, TPA$_EXIT
                              STRAN
005C
005C
005C
                              STRAN
                              STRAN
                              STRAN
                                           TPAS LAMBDA, TPAS_EXIT
005C
                              SSTATE
005C
                                           !TERM, TPAS EXIT, SHIFT?
                              STRAN
```

B

ge 14

PAI

```
SSTATE
STRAN
SSTATE
STRAN
                                                                                                                             MULTIPLICATION
!TERM, TPAS_EXIT, MULT2
DIVISION
005CC005CC005CC005CC005CC
                                SSTATE
                                                                                         STRAN
                                                                                                                               !TERM, TPAS_EXIT, DIV2
                                                                                                                             FACTOR
'-', NEGATE
'(', PARENS
'a', INDIRE(
                                                                                         STRAN
STRAN
                                                                                         STRAN
                                                                                                                             TPAS EXIT, EVAL DOT
TPAS SYMBOL, TPAS EXIT, EVAL SYMBOL
!CONSTANT, TPAS EXIT, EVAL CONSTANT
                                                                                          STRAN
                                                                                          STRAN
                                                                                          STRAN
                                                                                          STRAN
005C
005C
005C
005C
                                                                                          SSTATE
                                                                                                                              NEGATE
                                                                                          STRAN
                                                                                                                                !FACTOR, TPA$_EXIT, NEG1
INDIRECT
                                                                                          SSTATE
                                                                                          STRAN
                                                                                                                                 !FACTOR, TPA$_EXIT, EVAL_CONTENTS
                                                                                          SSTATE
                                                                                                                              PARENS
                                                                                          STRAN
                                                                                                                                !EXPRESSION
0050
                                                                                         SSTATE
STRAN
0050
                                                                                                                               ')',TPA$_EXIT
005C
                               CONSTANT
'+', CONSTANT
'A', RADIX
!HEX, TPAS_EXIT
                                                                                         SSTATE
STRAN
005C
0050
                                                                                          STRAN
005C
                                                                                          STRAN
305C
005C
                                                                                                                             RADIX
'O',OCTAL
'X',HEX
'D',DECIMAL
                                                                                          SSTATE
005C
                                                                                          STRAN
005C
005C
005C
005C
005C
                                                                                         STRAN
                                                                                         STRAN
                                                                                        STATE
STRAN
                                                                                                                           OCTAL TPAS_EXIT
STATE
STRAN
                                                                                                                            DECIMAL TEAS DECIMAL, TEAS EXIT
                                                                                                                             HEX
'G', SYSREG
'H', CTLREG
TPA$ HEX, TPA$ EXIT
SYSREG
                                                                                         SSTATE
STRAN
                                                                                         STRAN
                                                                                          STRAN
                                                                                         SSTATE
                                                                                          STRAN
                                                                                                                             TPAS HEX, TPAS EXIT, ADD 8000 CTLREG
                                                                                        SSTATE
                                                                                          STRAN
                                                                                                                              TPAS_HEX, TPAS_EXIT, ADD7FFE
                                                                                        SHOW PROCESS [name/ALL] [/INDEX=n] [/SYSTEM]
/WORKING_SET_LIST [Or Note of the content of the co
                                                                                                                                                                                                                                                                                     [or WSL]
[or PST]
[or PPT]
                                                                                                                                                start:end
                                                                                                                                                start; length /PO
                                                                                                                                                 /P1
```

STRAN

SSTATE

STRAN SSTATE STRAN STRAN STRAN SSTATE

STRAN STRAN SSTATE STRAN

STATE STRAN

SSTATE STRAN

"="

RMS'

TPAS_HEX,PROCESS,STORE_PROC_INDEX PROC_PPT !CK_EOS,TPAS_EXIT,SHOW_PROCESS '/',PROCESS1 !EXPRESSION

!DISPLAY, TPAS_EXIT,, OPTSM_RMSD, OPTIONS

SEMI,,,OPTSM PPT_LEN,OPTIONS COLON,,,OPTSM_PPT_RNG,OPTIONS

!EXPRESSION, PROCESS

SHOW PROCESS/RMS [=opt] [=(opt1,opt2,...,optn)]

PAR

16 (4) Page

```
STRAN TPAS_LAMBDA, TPAS_EXIT
                            SET PROCESS name /INDEX=n /SYSTEM
                                        SET_PROC!INDEX
                            SSTATE
                            STRAN
                            STRAN
                                        TPAS_SYMBOL,,,,PROC_NAME
                            SSTATE
                            STRAN
                                        TPAS_LAMBDA, TPAS_EXIT, SET_PROCESS
                                        INDEX
                            SSTATE
                            STRAN
SSTATE
                            STRAN
STRAN
                                         'INDEX'
                                         'SYSTEM', TPA$ EXIT, , OPT$M_SYSPROC, OPTIONS
                            SSTATE
                            STRAN
                                         1 = 1
                            STRAN
                            SSTATE
                            STRAN
                                        TPAS_HEX,TPAS_EXIT,STORE_PROC_INGEX
                            SHOW POOL /IRP /NONPAGED /PAGED /ALL /SUMMARY /HEADER
                            SSTATE
                                        POOL
                            STRAN
                                        !CK_EOS, TPAS_EXIT, SHOW_POOL
                            STRAN
                            STRAN
                                         TPAS_LAMBDA, POOL_RANGE
                            SSTATE
                                        'IRP'.POOL,OPTSM_IRP.OPTIONS
'LRP'.POOL,OPTSM_LRP.OPTIONS
'SRP'.POOL,OPTSM_SRP.OPTIONS
'NONPAGED'.POOL,OPTSM_NONPAGED.OPTIONS
'PAGED'.POOL,OPTSM_PAGED.OPTIONS
'ALL'.POOL,OPTSM_IRP!OPTSM_NONPAGED!OPTSM_PAGED.OPTIONS
'SUMMARY'.POOL,OPTSM_SUMMARY.OPTIONS
'HEADER'.POOL,OPTSM_READER.OPTIONS
'FREE'.POOL,OPTSM_FREE.OPTIONS
'TYPE'.,OPTSM_TYPE,OPTIONS
                            STRAN
                            SSTATE
005C
005C
005C
005C
                                        1 = 1
                            STRAN
                                         1 . 1
                            STRAN
                            SSTATE
                            STRAN
                                        TPA$_SYMBOL,POOL,,,STRUCTURE
005C
005C
005C
                            SHOW POOL start:end
                                             start; length
005C
005C
005C
                             STATE
                                        POOL_RANGE
                                         !EXPRESSION
                            STRAN
                             SSTATE
                                         SEMI,,,OPT$M_LENGTH,OPTIONS
                             STRAN
```

SSTATE STRAN STRAN STRAN STRAN STRAN

PFN OPTION
'FREE', PFN OPTS, OPTSM FREE, OPTIONS
'MODIFIED', PFN OPTS, OPTSM MODIFIED, OPTIONS
'BAD', PFN OPTS, OPTSM BAD, OPTIONS
'SYSTEM', PFN OPTS, OPTSM WHOLEPFN, OPTIONS
'ALL', PFN OPTS, OPTSM FREE! OPTSM MODIFIED! OPTSM BAD! OPTSM WHOLEPFN, O

PAR

```
18 (4)
```

PAR

V04

```
SHOW PAGE_TABLE/SYSTEM/GLOBAL/ALL
                                      PAGE_TABLE
'/' PAGE_OPTION
TPA$_LAMBDA,,,OPT$M_SYSTEM!OPT$M_GLOBAL,OPTIONS
                           SSTATE
                           STRAN
                           STRAN
                           SSTATE
                           STRAN
                                       !CK EOS, TPAS EXIT, DISPLAY_SPT TPAS_LAMBDA, PAGE_RANGE
                           STRAN
                                      PAGE_OPTS
                           SSTATE
                           STRAN
                                      !CK_EOS,TPA$_EXIT,DISPLAY_SPT
TPA$_LAMBDA,PAGE_RANGE
PAGE_OPTION
'SYSTEM',PAGE_OPTS.,OPT$M_SYSTEM,OPTIONS
'GLOBAL',PAGE_OPTS,,OPT$M_GLOBAL,OPTIONS
'ALL',PAGE_OPTS,,OPT$M_ALL,OPTIONS
                           STRAN
                           STRAN
                           SSTATE
                           STRAN
                           STRAN
                           STRAN
                           SHOW PAGE
                                           start:end
                                           start; length
                           SSTATE
                                       PAGE_RANGE
                           STRAN
                                       !EXPRESSION
                           SSTATE
                                      SEMI ... OPTSM_LENGTH, OPTIONS
                           STRAN
                           STRAN
                                      COLON,,,OPTSM_RANGE,OPTIONS
                           SSTATE
                           STRAN
                                      !EXPRESSION
                           SSTATE
                           STRAN
                                      !CK_EOS, TPA$_EXIT, DISPLAY_SPT_RANGE
                           SHOW SUMMARY / IMAGE
                           SSTATE
                                       SHOW_SUMMARY
                                       CK_EOS, TPAS_EXIT, PROCESS_SUMMARY
                           STRAN
                           STRAN
                           SSTATE
                           STRAN
                                       "IMAGE", SHOW_SUMMARY,,OPT$M_IMAGE,OPTIONS
                           SHOW SYMBOL[/ALL] [name] [/ALL]
                           SSTATE
                                      SYMBOL
                                      TPA$ LAMBDA, CLEAR_SYMBOL_NAME
SYMBOL_QUALS
'/',SYMBOL_OPTS
TPA$ SYMBOL_SYM, SYMBOL_NAME
!CK_EOS,TPA$_EXIT,SHOW_SYMBOL
                           STRAN
                           SSTATE
                           STRAN
                           STRAN
                           STRAN
```

6 1

EVA

PAR

Syn

\$55

\$\$\$

\$\$\$

\$\$\$ \$\$\$ \$\$\$

SSK ADC ADC

ADC

ADC

ADC

ARC

ARI

ATP

DEC

SEND_STATE

PAR

Sym

Parse tables for SDA commands PARSER STATE TABLE

16-SEP-1984 01:36:01 5-SEP-1984 03:33:21 VAX/VMS Macro V04-00 [SDA.SRCJPARSE.MAR:1 Page

00000000 989

.PSECT PARSE, EXE, NOWRT

J 1

21 (4)

PAR Sym

PARSE V04-000				Pars	se tables f RESSION ANA	or SDA co	mmands ION ROU1	K 1 16-SEP-1984 01 FINES 5-SEP-1984 03	1:36:01	VAX/VMS Macro V04-00 [SDA.SRC]PARSE.MAR;1	Page	22 (5)
					0000 99 0000 99	1	.SBTTL	EXPRESSION ANALYSIS ACT				
					0000 99 0000 99	3	EXPRESS	SION ANALYSIS ACTION ROUT	TINES			
					0000 99 0000 99 0000 99	6 7 8	THESE F PARSING STACK S	ROUTINES ARE CALLED FROM TRANSITIONS TO EVALUATE SPACE.	THE EXPR	RESSION ANALYSIS NTS USING A SEPARATE		
					0000 100 0000 100	0 INP	uts:					
					0000 100 0000 100 0000 100	2	AP = AC	DORESS OF TPARSE PARAMETE	ER BLOCK			
		61	44 81 47	0000 10 00 11	0000 99 0000 99 0000 99 0000 99 0000 99 0000 99 0000 100 0000 100	6 ADD2:	.WORD BSBB ADDL2 BRB	O EVAL SETUP (R1) +, (R1) STORE	; ADD a	2 ARGUMENTS, RESULT ON TOP		
		61	38 81 3E	0000 10 C4 11	0010 101	4	.WORD BSBB MULL2 BRB	O EVAL SETUP (R1) +, (R1) STORE	; MULTI	IPLY 2 ARGUMENTS, RESULT ON	TOP	
		61	32 81 35	0000 10 C2 11	0012 101 0012 101 0014 101 0016 101 0019 101	6 SUB2: 7 8	WORD BSBB SUBL2 BRB	O EVAL_SETUP (R1) +, (R1) STORE	; SUBTE	RACT 2 ARGUMENTS, RESULT ON	TOP	
		61	29 61 30 81 28	0000 10 D5 13 C6	001B 102 001B 102 001D 102 001F 102 0021 102 0023 102 0026 102	DIV2:	.WORD BSBB TSTL BEQL DIVL2 BRB	0 EVAL_SETUP (R1) FAILURE (R1)+,(R1) STORE		OT ALLOW DIVIDE BY ZERO DE 2 ARGUMENTS, RESULT ON TO	P	
	61	50 61	10 81 50 18	0000 10 00 78 11	0026 102 0028 102 0028 102 002A 102 002C 103 002F 103	2	.WORD BSBB MOVL ASHL BRB	O EVAL SETUP (R1) # ,RO RO, (R1),(R1) STORE	GET S	SHIFT COUNT I LEFT BY COUNT		
		61	0f 61 12	0000 10 CE 11	0035 103 0035 103 0037 103 0039 103 003C 103	4 NEG1:	.WORD BSBB MNEGL BRB	O EVAL_SETUP (R1) (R1) STORÉ	; NEGAT	TE 1 ARGUMENT, RESULT ON TOP		
	71	10	06 AC 08	0000 10 00 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 EVAL_CO	WORD BSBB MOVL BRB	O EVAL_SETUP TPA\$[_NUMBER(AP),-(R1) STORE	; PUSH	RESULT FROM TPARSE		
	51 000	00000)'EF	00	0042 104 0046 104 0048 104 0048 104 0048 104	S EVAL_SE	TUP: MOVL RSB	ESP,R1	; R1 =	STACK POINTER		

PAR' Pse

SAB SDA LI LI FAR

Pha Ini Com Pas Symi Pas Symi Pse Cro Assi

The 5191 The 1371 32

%2 -\$2 -\$2 TOT 753

The MAC

Page	23 (5)		**
		1	

Parse tables for SDA commands
EXPRESSION ANALYSIS ACTION ROUTINES

16-SEP-1984 01:36:01 VAX/VMS Macro V04-00
5-SEP-1984 03:33:21 [SDA.SRC]PARSE.MAR;1

PARSE V04-000

	0000	1C AC 0000'EF 50	61 51 01	DO DO 04	0050 1048 0050 1050 0050 1050 0054 1051 005B 1053	MOVL RET	(R1) TPA\$L_NUMBER(AP) R1,E\$P #1,R0	: SAVE RESULT FOR CALLER : STORE STACK POINTER
			50	04	005F 1056 005F 1056 005F 1056 0061 1057 0062 1058	FAILURE:	RO	
	0000	0000'EF EE	91	0000 7F FB E9 DD	0062 1059 0062 1060 0064 1061 0067 1062 006E 1062	BLBC	O TPA\$L_TOKENENT(AP) #1,SYMBOL_VALUE RO,FAILURE R1	; DESCRIPTOR OF SYMBOL NAME ; TRY TO FIND IN SYMBOL TABLE
			D3 71 D6	BEDO	0073 1065	BRB	EVAL_SETUP -(R1) STORE	; PUSH RESULT ONTO STACK
	71	00000000	CA 'EF C9	0000 10 00 11	0078 1067 007A 1068 007A 1070 007C 1071 007E 1077 0085 1077	EVAL_DOT: .WORD BSBB MOVL BRB	O EVAL SETUP ADDRESS,-(R1) STORE	
			BD	0000	0087 1074 0087 1075 0087 1076 0089 1077 0088 1078	BSBB REQMEM	0 EVAL_SETUP a(R1)	; GET CONTENTS OF LOCATION
			51 AF 61 B2	DD 10 8ED0 11	0095 1079 0097 1080 0099 1081 0090 1082	PUSHL BSBB POPL BRB	R1 EVAL_SETUP (R1) STORE	; AND REPLACE ARG. ON TOP OF STACK
10	AC	80000000	8F	0000 C0 04	009E 1084 009E 1084 009E 1085 00A0 1086 00A8 1087	ADD8000: .WORD ADDL RET	0 #^X80000000, TPA\$L_NUMB	; ADDRESS IN SYSTEM REGION ER(AP); ADD BASE OF SYSTEM REGION
10	AC	7FFE0000	8f	0000 C0 04	00A9 1088 00A9 1089 00A9 1090 00AB 1091 00B3 1092	, ₩ORD	0 #^X7FFE0000,TPA\$L_NUMB	; ADDRESS IN CONTROL REGION ER(AP); CONTROL REGION

```
Parse tables for 5DA commands 16-SEP-1984 01:36:01 STORE_RELOCATION, SIDRE READ/RELOCATE VA 5-SEP-1984 03:33:21
PARSE
VO4-000
                                                  1094
1095
1096
1097
                                                                  .SBTTL STORE_RELOCATION, STORE READ/RELOCATE VALUE
                                                                 STORE THE VALUE OF THE READ/RELOCATE QUALIFIER.
                                                   1098
1099
                                                          INPUTS:
                                                                 TPAS_L_NUMBER(AP) = RELOCATION BASE
                                                          OUTPUTS:
                                                  1104
1105
1106
1107
1108
                                                                 RELOCATE_BASE = RELOCATION BASE
                                                        STORE_RELOCATION:
                                    0000
                                                                  . WORD
             00000000'EF
                             1C AC
                                                                  MOVL
                                                                           TPA$L_NUMBER(AP), RELOCATE_BASE
                                                                  RET
                                           .SBITL STORE_PROC_INDEX, STORE PROCESS INDEX LOW BITS
                                                                  STORE THE LOW ORDER BITS (AS DETERMINED BY PIX_WIDTH) OF THE PROCESS
                                                                  INDEX. THIS LETS US INTERCHANGE INTERNAL AND EXTENDED PIDS
                                                          INPUTS:
                                                                 TPAS_L_NUMBER(AP) = USER-SPECIFIED PROC INDEX
                                                          OUTPUTS:
                                                                 PROC_INDEX = LOW ORDER BITS
                                                        STORE_PROC_INDEX:
                                    0000
                                                                  . WORD
                                           00C1
                00000000°EF 00
00000000°EF
50 01
       1C AC
                                      EF
                                                                 EXTZV
                                                                          #O, PIX_WIDTH, TPA$L_NUMBER(AP), PROC_INDEX
                                           00CA
00CF
                                      DO
                                                                 MOVL
                                                                           #1, RO
                                                                  RET
```

P00

V04

```
.SBTTL SAVE_COMMAND, SAVE THE CURRENT COMMAND
                                                                     SAVE THE CURRENT COMMAND IN THE COMMAND BUFFER SO THAT A LATER 'REPEAT' COMMAND CAN RECALL IT.
                                                 1141
                                                           INPUTS:
                                                                    TPA$L_STRINGCNT(AP) = DESCRIPTOR OF STRING
                                                 1146
                                                           OUTPUTS:
                                                 1148
1149
1150
1151
1152
1153
1154
                                                                     PREV_COMMAND = DESCRIPTOR OF SAVED STRING
                                                        SAVE_COMMAND::
                              003C
                                                                                 ^M<R2,R3,R4,R5>
                                                                     . WORD
                                        00D5
00D5
00DD
                                                                                 TPA$L_STRINGCNT(AP), PREV_COMMAND
TPA$L_STRINGCNT(AP), aTPA$L_STRINGPTR(AP), -
aPREV_COMMAND+4
                                 80
28
00000050'EF
           0°EF 08 AC
BC 08 AC
00000054°FF
                                                 1156
1157
1158
1159
1160
1161
1163
1164
1165
                                                                     MOVW
         OC BC
                                                                     MOVC
                                       00E2
00E7
00E7
00E7
00E9
00F7
00FD
0103
010A
0116
                                                                     : Tell the SMG$ level how to repeat this command
                                                                     CLRL
                                                                                 -(SP)
                                 9F
9F
9F
9F
9F
FB
                                                                                                                         State string null
            00000050'EF
                                                                                PREV COMMAND
KEY ATTR
-(SP)
                                                                                                                         Last command attributes
                                                                     PUSHAB
                                                                     PUSHAB
                                                                                                                         No IF_STATE
Repeat key name (KPO defaults)
                                                                     CLRL
                                                1166
1167
1168
1169
1170
                                                                                 REFFAT_KEY
                                                                     PUSHAB
            00000000°EF
                                                                                 KEYTABLE
                                                                     PUSHAB
                                                                                                                         key table
    00000000 GF
                                                                                 #6, G"SMGSADD_KEY_DEF
                                                                     CALLS
                                                                                                                         Change key definition
```

SIGNAL RET

RET

POC

POC VO4

PARSE VO4-000

POC VO4

```
PARSE
V04-000
                                           Parse tables for SDA commands 16-SEP-1984 01:36:01 Action Routines for SET:SHOW RMS/DISPLAY 5-SEP-1984 03:33:21
                                                                                                                              VAX/VMS Macro V04-00 [SDA.SRCJPARSE.MAR; 1
                                                 0192
0192
0192
0194
019F
01AA
                                         0000
D0
B0
D0
04
                                                                END_SET_RMS: . WORD
       00000000 EF
                                                                                     RMS_DIS_TMP,RMS_DIS_OPT
RMS_IFI_TMP,RMS_IFI
#1,R0
                          00000000'EF
                                                                           MOVL
                         00000000 EF
                                                                           MOVW
                                                                           MOVL
                                                                           RET
                                                                  STORE_IFI_TMP -- Set the temporary IFI from the results of !EXPRESSION.
                                                                  Inputs:
                                                                         TPA$L_NUMBER(AP) = Results of !EXPRESSION
                                                                   Outputs:
                                                                           RMS_IFI_TMP contains above value.
                                                 01AE
                                         0000
80
00
04
                                                 01AE
01B0
01B8
                                                                STORE_IFI_TMP:.WORD
              00000000'EF
                                                                                     TPA$L_NUMBER(AP),RMS_IFI_TMP #1,R0
                                 1C AC
                                                                           MOVL
                                                 0188
                                                                           RET
                                                 01BC
01BC
01BC
                                                                  CLR_IFI_TMP -- Clear RMS_IFI_TMP.
                                                 01BC
                                                 01BC
                                                                  Inputs:
                                                 01BC
                                                 01BC
                                                                           None.
                                                 01BC
                                                         1302
                                                 01BC
                                                                  Outputs:
                                                 01BC
                                                         1304
                                                         1305
                                                 01BC
                                                                          RMS_IFI_TMP = 0
                                                         1306
1307
1308
                                                 01BC
                                                 01BC
                                         0000
B4
D0
04
                                                                CLR_IFI_TMP:.WORD 0
CLRW RMS
                                                 01BC
                         00000000 EF
50 01
                                                                                     RMS_IFI_TMP
#1,RO
                                                                           MOVL
                                                                           RET
                                                                  SETUP_DIS_OPT -- Setup for !DIS_OPT state.
                                                                  Inputs:
                                                                          None.
                                                                  Outputs:
                                                                          RMS_DIS_TMP1 = 0
                                         0000
04
00
                                                                SETUP_DIS_OPT: . WORD CERL RMS
                         00000000°EF
                                                                                     RMS_DIS_TMP1
                                                                           MOVL
```

```
PARSE
V04-000
                                               Parse tables for SDA commands 16-SEP-1984 01:36:01 Action Routines for SET:SHOW RMS/DISPLAY 5-SEP-1984 03:33:21
                                                                                   RET
                                                      STORE_STAR -- Include into temporary options previous perm options.
                                                                         Inputs:
                                                                                  RMS_DIS_OPT = Permanent options.
RMS_IFI = Permanent IFI.
                                                                          Outputs:
                                                                                  RMS_DIS_TMP1 = RMS_DIS_OPT - OPT$M_NO RMS_IFI_TMP = RMS_IFI
                                                       0104
                                                       0104
                                                       0104
                                             0000
DD
CA
8EDO
BO
DO
04
                                                                       STORE_STAR: . WORD 0
                                                      0104
                                                                                              RMS DIS OPT
#OPTSM_NO.(SP)
RMS_DIS_TMP1
RMS_IFI,RMS_IFI_TMP
#1,R0
                            00000000 EF
6E 01
                                                                                   PUSHL
                                                       0106
                           6E 01
00000000'EF
00000000'EF
50 01
                                                      OIDC
                                                      01DF
                                                                                   POPL
       00000000°EF
                                                                                   MOVW
                                                                                   MOVL
                                                                                   RET
                                                                         CLEAR_SYMBOL_NAME -- Clear SYMBOL_NAME prior to parsing SHOW/SYMBOL
                                                                         Inputs:
                                                                                  None.
                                                                          Outputs:
                                                               1359
1360
1361
1362
1363
1364
1365
1366
1367
                                                                                  SYMBOL_NAME = 0
                                                                      CLEAR_SYMBOL_NAME:
                                             0000
70
                                                                                   . WORD 0
                                                                                              SYMBOL_NAME
                            00000000'EF
                                                                                   CLRQ
                                                      01FD
0200
                                                D0
04
                                  50
                                                                                   MOVL
                                                                                               #1.R0
                                                                                   RET
```

PARSE V04-000 Parse tables for SDA commands 16-SEP-1984 01:36:01 VAX/VMS Macro V04-00 Action Routines for SET:SHOW RMS/DISPLAY 5-SEP-1984 03:33:21 [SDA.SRC]PARSE.MAR;1

Page 31 (12)

0201 1369 0201 1370

.END

P00 V04

PARSE Symbol table	Parse tables for SDA o	ommands H 2 5-SEP-1	984 01:36:01 VAX/VMS Macro V04-00 984 03:33:21 [SDA.SRC]PARSE.MAR;1	Page 32 (12)
SSSAST SSSCNT SSSFLG SSSKEY SSSKEY SSSKFG SSSMOD SSSTMP SSKEYTAB ADD2 ADD7FFE ADD8000 ADD1TION ADDRESS ARGS ARITH SHIFT ATM_OFT CDT_BYADDR CDT_SPCFY CK_EOS CLEAR_SYMBOL_NAME CLOSE_LOG CLR_IFI_TMP COLCECT_COLLECT_LOOP COLON CONSTANT COPY_CMD CSID CTLREG DECIMAL DEFINE_SYMBOL DEVICE DEVICE OPTS DISPLAY DISPLAY_DEVICE DISPLAY_DEVICE DISPLAY_DEVICE DISPLAY_PFN DISPLAY_PFN DISPLAY_PFN DISPLAY_PFN DISPLAY_SPT DISPLAY	= 000000000 = 000000087 = FFFFFFFF = 00000000 R 00000000 R 000000000 R 00000000	EXAMINE EXPRESSION EXIT COMMAND EXPOP EXPRESSION FACTOR FAILURE FILE DESC FORMAT FORMAT CMD FORMAT OPTS HELP CMD HEX INDIRECT CMD INDIRECT	000003D0 R	

PARSE Symbol table	Parse tables for	SDA commands 16-SEP 5-SEP	-1984 01:36:01 VAX/VMS Macro V04-00 -1984 03:33:21 [SDA.SRC]PARSE.MAR;1	Page 33 (12
OPTSM_FWA	= 00100000	OPTIONS OUTPUT_FILE	******* X 03 000008F8 R 03 000008E8 R 03 000008CC R 03 00000594 R X 03 00000890 R 03 00000890 R 03 0000072E R 03 0000072E R 03 00000700 R 02 0000050 R 02 0000050 R 02 ******* X 03	
DPT\$M_GBD DPT\$M_GBDSUM	= 00020000	PAGE_OPTION	****** X 05	
PTSM_GBH	= 00040000	PAGE_OPTS	000008F8 R 03	
IPTSM GLORAL	= 0000001	PAGE_RANGE	000008F8 R 03 000008E8 R 03 0000091C R 03 000008CC R 03	
PTSM_HEADER	= 00000080	PAGE_TABLE	000008CC R 03	
PTSM HEADER PTSM IDX PTSM IFB PTSM IMAGE	= 00000008	PARENS	00000594 R 03	
PISM IMAGE	= 00000002 = 0000001	PEN DATA	00000864 B 03	
PISM INST	= 00000020	PDT_BYADDR PFN_DATA PFN_OPTION PFN_OPTS PIX_WIDTH POOL	00000864 R 03 00000890 R 03	
PTSM IRB PTSM IRP PTSM ISP	= 0000004	PFN_OPTS	00000886 R 03	
PTSMIRP	= 00000002	PIX_WIDTH	****** X 06	
DPT\$M_KSP	= 00000001	POOL BANGE	0000072E R 03 000007CO R 03	
PTSM_LCK	= 00000200	POOL_RANGE PREV_BUFFER	000007C0 R 03	
PT\$M_LENGTH	= 00000010	PREV COMMAND	00000000 R 02 00000050 R 02	
DFTSM_LRP DFTSM_MODIFIED	= 00000020	PRINT ANY STACK	***** X 03	
DPTSM_MODIFIED	= 00000002	PRINT HEADER PRINT STACKS	***** X 03	
DPTSM_NAM DPTSM_NO	= 00001000 = 0000001	PROCESS	000005DA R 03	
PTSM_NONPAGED	= 00000004	PROCESS1	000005EE R 03	
PTSM_NOSKIP PTSM_PO	= 00000200	PROCESS_SUMMARY	****** X 03	
PTSM_PO	= 00000001	PROCESS SUMMARY PROC_INDEX	****** X 06	
PTSM_PO_PPT PTSM_P1	= 00000800 = 0000002	PROCINAME	****** X 03	
PTSM_P1_PPT	= 00000002	PROC_PPT	000006B4 R 03 000006C0 R 03	
OPTSM_PAGED	= 00000008	RADIX	000005AA R 03	
OPTSM_PCB	= 00000010	READ CMD	000009F6 R 03	
OPTSM PHD	= 00000020	READ_UALS	00000A0C R 03	
OPTSM_PPT OPTSM_PPT_LEN	= 00000002 = 00002000	READ_SYMFILE RELOCATE_BASE	****** ¥ 05	
PTSM PPT RNG	= 00004000	REPEAT COMMAND	00000117 RG 06	
PTSM PPT RNG PTSM PSL PTSM PST PTSM RAB	= 00000040 = 0000004	REPEAT_COMMAND REPEAT_KEY REQMEM	****** X 06	
DPTSM_PST	= 00000004	REQMEM	****** X 06	
OPTSM_RANGE	= 00000800 = 0000008	RÉS RMS	00000102 R 03 000006EC R 03	
PT\$M REGS	= 00000008	RMS_DIS_OPT	****** X 06	
PTSM_RJB PTSM_RLB	= 00400000	RMS DIS TMP	****** X 06	
DPT SM_RLB	= 00004000	RMS_DIS_TMP1 RMS_IFI	***** X 03	
PT\$M_RMS PT\$M_RMSALL	= 00000080 = FFFFFFE	RMS_IFI_TMP	****** X 06	
DTEM DMCD	= 00000100	SAVE COMMAND	000000D3 RG 06	
PTSM_SELF	= 00000001 = 00000010	SAVE_DUMP	****** X 03	
OPT SM_SINGLEPFN	= 00000010	SCS_CONNECT	0000015E R 03 00000178 R 03 00000192 R 03 00000000 RG 04	
JPIBM_SKP	= 000000200 = 00000008	SCS_PORTS	00000178 K 05	
OPTSM SUMMARY	= 00000040	SDA KEY	00000000 RG 04	
PTSM_SYSPROC	= 00000040	SAVE DUMP SCS CONNECT SCS PORTS SCS RDT SDA KEY SDA STATE	00000000 RG 03 0000004E R 03	
DPTSM_SYSTEM	= 0000004	2EAKCH	00000102 R 03 000006EC R 03 ******* X 06 00000003 RG 06 ******* X 06 0000015E R 03 00000178 R 03 00000178 R 03 00000192 R 03 00000000 RG 04 00000000 RG 04	
OPTSM SELF OPTSM SINGLEPFN OPTSM SSP OPTSM SSP OPTSM SYSPROC OPTSM SYSTEM OPTSM TIME OPTSM TRC	= 00000080 = 00080000	SEARCH_MEMORY	= 0000003B	
OPTSM_TYPE	= 00080000	SEMI SET	000001B6 R 03	
DPT SA TUSP	= 00000010	SETUP_DIS_OPT	000001C8 R 06	
OPTSM_WCB	= 00000100	SETUP RMS TMP	000001C8 R 06 00000157 R 06	
OPTSM_WHOLEPFN	= 00000008	SET_LOG SET_OUTPUT SET_PROC	000001B6 R 03 000001C8 R 06 00000157 R 06 000001CE R 03 000001DE R 03 00000700 R 03	
DPTSM_WSL DPTSM_XAB	= 00000001 = 00002000	2E I UU I PU I	AAAAAAA K	

P00 V04

PARSE Symbol table	Parse tables for SDA		16-SEP-1984 01:36:01 VAX/VMS Macro V04-00 5-SEP-1984 03:33:21 ESDA.SRCJPARSE.MAR;1	Page 34 (12)
SET_PROCESS SET_RMS SHIFT2 SHOW SHOW_ALL_LOCKS SHOW_ALL_RES SHOW_CLUSTER SHOW_CONNECTIONS SHOW_EXPR SHOW_ONE_EXPR SHOW_POOL SHOW_POOL SHOW_POOL SHOW_POOL SHOW_POOL SHOW_PROCESS SHOW_RMS SHOW_RMS SHOW_RMS SHOW_RMS SHOW_SYMBOL SMG\$ADD KEY DEF SMG\$ADD FINE REY STORE_STAR STORE_STAR STORE_FROC_INDEX STACK SHOW SHOW SHOW SHOW SHOW SHOW SHOW SHOW	******* X 03 00000028 R 000000088 R ******** X 03 ******* X 03 ******** X 03 ********* X 03 ********** X 03 ********** X 03 ******** X 03 ********** X 03 *********** X 03 ********** X 03 ********	TPAS FILESPEC TPAS HEX TPAS IDENT TPAS KEYWORD TPAS MAXKEY TPAS OCTAL TPAS STRING TPAS SUBXPR TPAS SUBXPR TPAS OUIC VALIDATE VALIDATE VALIDATE VALIDATE VAL QUEUE VAL QUEUE VAL QUEUE VAL SET MAX VAXCLUSTER	= FFFFFFE = 000001EA = 000001EC = 000001F6 = 000001F4 = 000001F8 = 000001EB = 000004C2 R X 03 000004C6 R 03 000004C6 R 03 000004DC R 03	

16-SEP-1984 01:36:01 VAX/VMS Macro V04-00 5-SEP-1984 03:33:21 [SDA.SRC]PARSE.MAR;1

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
ABS . \$ABS\$ SDADATA _LIB\$STATE\$ _LIB\$KEY0\$ _LIB\$KEY1\$ PARSE	00000000 (0.) 00000000 (0.) 0000005C (92.) 00000A5E (2654.) 00000110 (272.) 0000039E (926.) 00000201 (513.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.) 05 (5.) 06 (6.)	NOPIC USR NOPIC USR NOPIC USR PIC USR PIC USR PIC USR NOPIC USR	CON ABS CON REL CON REL CON REL CON REL CON REL CON REL	LCL NOSHR NOEXI LCL NOSHR EXI LCL NOSHR NOEXI LCL SHR EXI LCL SHR EXI LCL SHR EXI LCL SHR EXI LCL NOSHR EXI	E RD WRT NOVEC BYTE E RD WRT NOVEC BYTE E RD NOWRT NOVEC BYTE E RD NOWRT NOVEC WORD E RD NOWRT NOVEC WORD

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization Command processing	132	00:00:00.07	00:00:02.56
Pass 1 Symbol table sort Pass 2	1216	00:01:05.52 00:00:00.61 00:00:14.41	00:04:07.53 00:00:02.04 00:00:53.72
Symbol table output Psect synopsis output	260 37 2	00:00:00.17	00:00:00.38
Cross-reference output Assembler run totals	1684	00:01:21.32	00:05:16.22

The working set limit was 3000 pages.
519055 bytes (1014 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 596 non-local and 3 local symbols.
1370 source lines were read in Pass 1, producing 69 object records in Pass 2.
32 pages of virtual memory were used to define 26 macros.

! Macro library statistics !

Macro Library name	Macros defined
_\$255\$DUA28:[SDA.OBJ]SDALIB.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	10

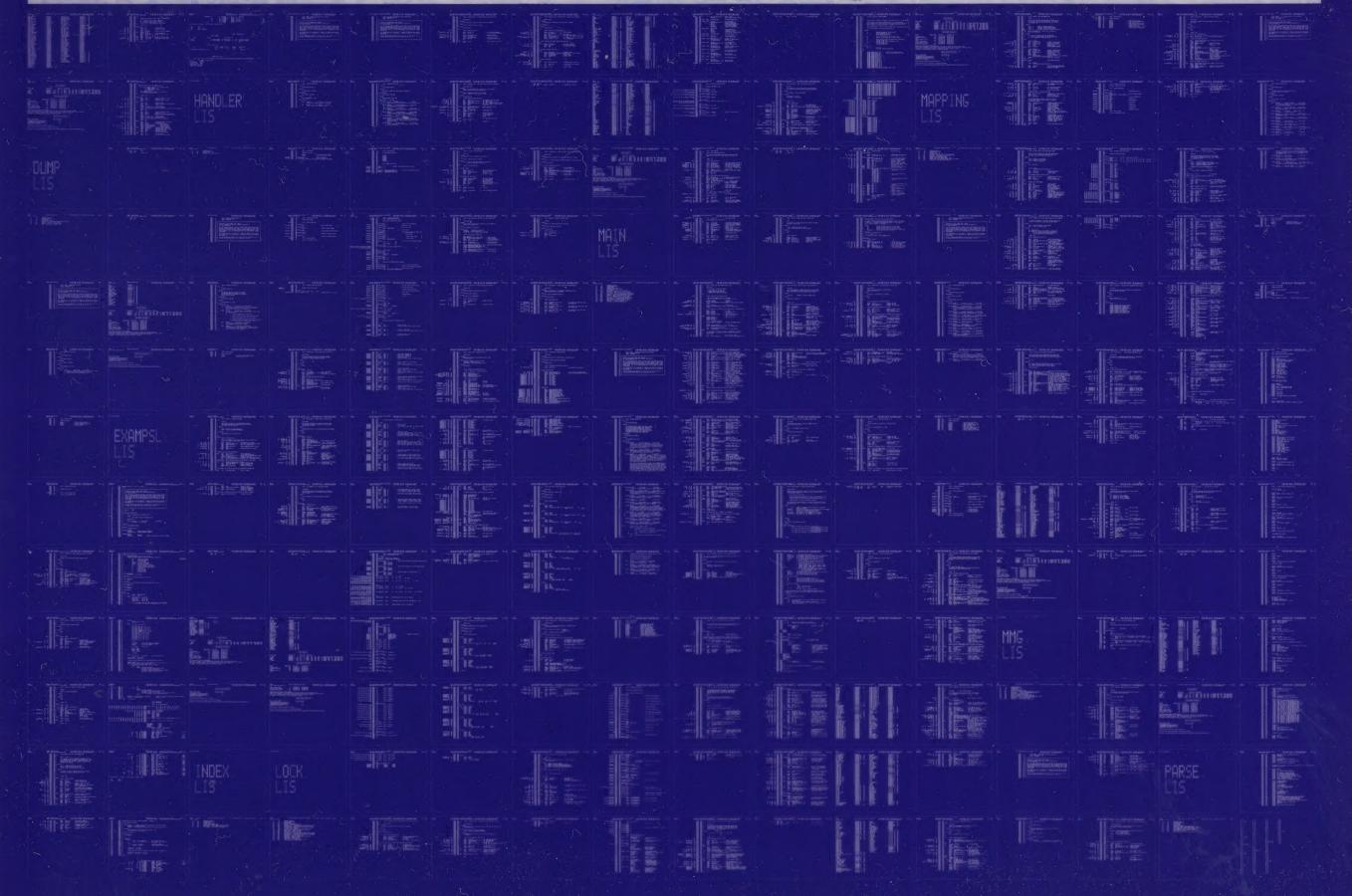
753 GETS were required to define 14 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:PARSE/OBJ=OBJ\$:PARSE MSRC\$:PARSE/UPDATE=(ENH\$:PARSE)+EXECML\$/LIB+LIB\$:SDALIB/LIB

0352 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY



0353 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

